

Title (en)  
METHOD AND SYSTEM FOR RECOMMENDING TOOL CONFIGURATIONS IN MACHINING

Title (de)  
VERFAHREN UND SYSTEM ZUR EMPFEHLUNG VON WERKZEUGKONFIGURATIONEN BEI DER BEARBEITUNG

Title (fr)  
PROCÉDÉ ET SYSTÈME POUR RECOMMANDER DES CONFIGURATIONS D'OUTILS EN USINAGE

Publication  
**EP 3832412 A1 20210609 (EN)**

Application  
**EP 20211757 A 20201204**

Priority  
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Abstract (en)  
This disclosure relates generally to recommending tool configurations in machining. The machining tool configuration selection involves the selection of several tool specification parameters concerning the material, geometry and composition of the machining tool. The state-of-the-art methods uses a rule and knowledge-based system to select tool configuration, however these methods do not recommend tool configurations which satisfy customer requirement. Embodiments of the present disclosure uses a hierarchical model which is trained to predict acceptable tool specification parameters for a given requirement by learning the patterns from past tool selection data. Further a probabilistic approach is used to predict the top set of recommendations of tool configurations with a probability score for each prediction. The disclosed method is used for recommending tool configurations in a cylindrical grinding wheel process.

IPC 8 full level  
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Citation (search report)  
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